

INFORMATION REPORT **SECRET**

COUNTRY Yugoslavia/Hungary

CONFIDENTIAL

DATE DISTR. 9 April 1948

SUBJECT Projected Aluminum and
Alumina Factories

NO. OF PAGES 4

PLACE
ACQUIRED

NO. OF ENCLS.
(LISTED BELOW)

DATE OF I

SUPPLEMENT TO
REPORT NO.

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THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH
USE OF TRAINED INTELLIGENCE ANALYSTS

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1. Production capacity of Yugoslav aluminum industry

a. Aluminum plants

Location	Present capacity in tons per annum	Future planned capacity	
		original	revised
Losovac	3,600		
Stalnice		20,000	45,000
Mostar		30,000	60,000
	3,600	50,000	105,000

b. Alumina plants

Stalnice	50,000	100,000
Mostar		100,000
	50,000	200,000

Comment: The Yugoslav alumina plants will be able, when completed, to deliver sufficient alumina for the requirements of the country's aluminum works.)

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2. Production capacity of the Hungarian aluminum industry

a. Aluminum plants

Location	Manufacturer	Present capacity (in tons)
Csepel (At present not working)	Manfred Weiss	4,500
Felszalika-Batabanya	Mak	4,800
Ajka	Hungar-Bauxitbanya, Hungar-Sovjet Bauxit- Alumina, Rt.	10,000
		19,300

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b. Alumina plants

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Location	Present capacity	Future planned capacity
		Original Revised
Magyaróvár	10,000 (approx.)	

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Document No. 01
NO CHANGE in Class. ☐

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Class. CHANGED TO: TS S (C)
DDA Memo, 4 Apr 77

Auth: DDA REG.

Date: 18/04/78

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Location	Present capacity	Future planned capacity	
		Original	Revised
Ajka	20,000	40,000 (?)	
Almasfuzito (Russian)		50,000	100,000
	30,000	90,000	100,000

3. Strnisce and Mostar Aluminum production capacity. The Strnisce Aluminum Factory is scheduled to produce 15,000 tons a year by the end of 1949 and 30,000 tons in 1950. The Mostar aluminum factory is scheduled to produce 20,000 tons a year by the end of 1952 and 30,000 tons in 1953. The construction of the plant is scheduled to start at the beginning of 1950 and the plans are to be ready by the end of 1948.
4. Strnisce Alumina Capacity. The Strnisce alumina plant is scheduled to produce 50,000 tons of alumina a year by the end of 1941 and 100,000 by an unspecified later date. It is possible that the factories will be prepared to produce the full 100,000 tons by the end of 1951.

5. Cost of construction of the Strnisce and Mostar plants.

a. Original target (All price quotations are in US dollars.)

Strnisce - aluminum works	\$11,000,000
alumina works	\$ 6,000,000
Mostar - aluminum works	\$15,000,000
	\$32,000,000

b. Middle target

Strnisce - aluminum works	\$16,500,000
alumina works	\$12,000,000
Mostar - aluminum works	\$15,000,000
	\$43,500,000

c. Latest target

Strnisce - aluminum works	\$24,750,000
alumina works	\$12,000,000
Mostar - aluminum works	\$30,000,000
	\$66,750,000

d. The Yugoslavs will pay the following advances for the machinery and equipment which is to be supplied by the Hungarians:

	<u>In free US Dollars</u>	<u>In Goods</u>
1947	\$2,500,000	\$1,200,000
1948	\$3,000,000	\$2,400,000
1949	\$1,500,000	\$2,400,000
1950	\$ 400,000	\$1,100,000
1951	\$ 400,000	\$1,100,000
1952	\$1,000,000	\$ 600,000
	\$8,800,000	\$8,800,000

6. Equipment requirements for the Yugoslav aluminum and alumina factories.

- a. It is of great importance for the construction work at Strnisce and Mostar that patents from the Elektrokemisk AG at Oslo or from SA Montecatini at Milan be obtained. The Elektrokemisk is quoting a

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price of \$900,000 for the patents, plus a premium of \$125,000 if the performance comes up to expectation (i.e. if the electric energy consumption is less than 18.5 kwh and if the consumption of graphite electrodes is less than approximately 0.62). In addition the Elektrodemisk wants \$120,000 for the drawings of the aluminum works and the graphite electrode works. Montecatini is quoting only \$330,000 for the drawings.

- b. The following machinery is essential for the alumina plants and can only be obtained from foreign countries:

Rotating furnaces

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Autoclaves, which are obtainable from Ceskoslovenska Zavody Kovodelne.

- c. The following equipment is essential for the aluminum plants:

Electrical transformers, three or four 60MVA 110/10.5kv.

Twelve rectifier transformer sets and one main transformer N1 / 9869 KVA.

One regulation transformer.

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7. Power Stations for the Strisce and Mostar Plants.

- a. The following power stations (when completed) will be the sources of energy for the Strisce plants:

Maribor 24MVA

Dravograd 20MVA

Velenje 100MVA

Trbovlje 30MVA

The new hydro-electric station on the Drava.

Comment: The hydro-electric station at Fala will not provide current for the works.) 50X1-HUM

- b. The following power stations (when completed) will provide the energy for the Mostar plants:

Jablonica power station

Tito power station

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Comment: These power stations will also provide current for the Brod-Sarajevo-Mostar railroad which is to be electrified. This line is at present a one meter gauge, but it is to be altered to 1525 mm.)

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8. Aluminum and alumina technicians in Yugoslavia and Hungary.

a. The following are the chief aluminum industry technicians in Hungary:

Engineer Ervin Becker of the Magyar Bauxitbanya Rt., Ajka, head of the Aluminum works.

Director Istvan Gebefugi - Machinery engineer of the above mentioned plant.

Dr. Rudolf Steiner - Managing director of the same factory - a chemical engineer.

Tibor Balazs - Director of the same factory - specialist in electrical machinery - NIK, Budapest.

b. The chief alumina industry technicians in Hungary are as follows:

Director Kutassi of the Magyarovar Alumina Factory.

Director Gebefugi (see above)

c. The following German experts are in Strnisce:

Dr. Ing. Fulda (alumina)

Dr. Ing. Vogel (various, but specializing in alumina)

Dipl. Ing. Homburg (electrical)

Ing. Popela.

d. The head of the aluminum works in Strnisce is Director Luckovnid and the Chief Engineer is Franjo Grunfeld.

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